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(54) IMPROVED RUBBER COMPOSITION FOR TREAD

(57)Abstract:

PURPOSE: The title composition having improved holding power of wet roads, and low-temperature and abrasion resistance, comprising a mixture of low- and medium- molecular motion rubbers, carbon black, and a resin softener.

CONSTITUTION: A vulcanized rubber composition comprising (A) 100 parts of a mixture of (a) 95W50 parts by wt. of a low-molecular motion rubber, e.g. butadiene-styrene copolymer with a styrene content of $\geq 30\text{wt\%}$ of butyl rubber, and (b) 5W50 parts by wt. of a medium-molecular motion rubber, e.g. styrene-butadiene rubber with a styrene content of 18W28wt% or natural rubber, (B) 0.5W20 parts by wt. of a resin softener, e.g. a terpene phenol resin, and/or aromatic hydrocarbon resin, (C) 40W100 parts by wt. of carbon black, and (D) 0W60 parts by wt. of an aromatic process oil having a viscosity-specific gravity constant ≥ 0.84 . The composition has a T_g of $350\text{W}600\mu\text{s}$ measured by the pulse NMR method at the frequency of 50Hz and a dynamic strain of 0.15%, a loss tangent ($\tan \delta$) of 0.2W0.5 at 20° C and 0.4W0.6 at -20° C .

LEGAL STATUS

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